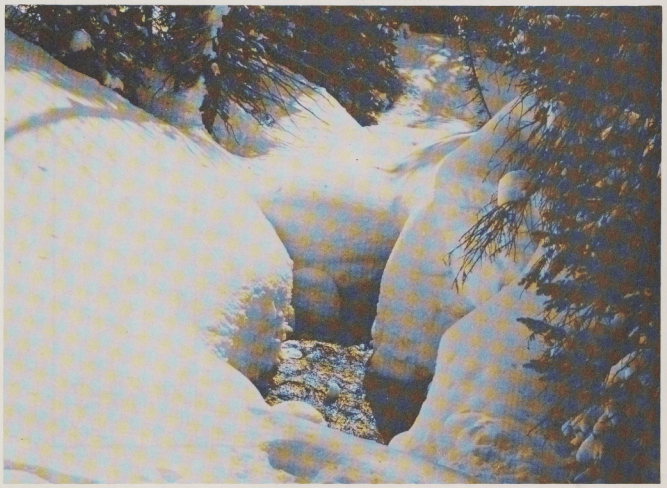
United States Department of Agriculture

Soil Conservation Service

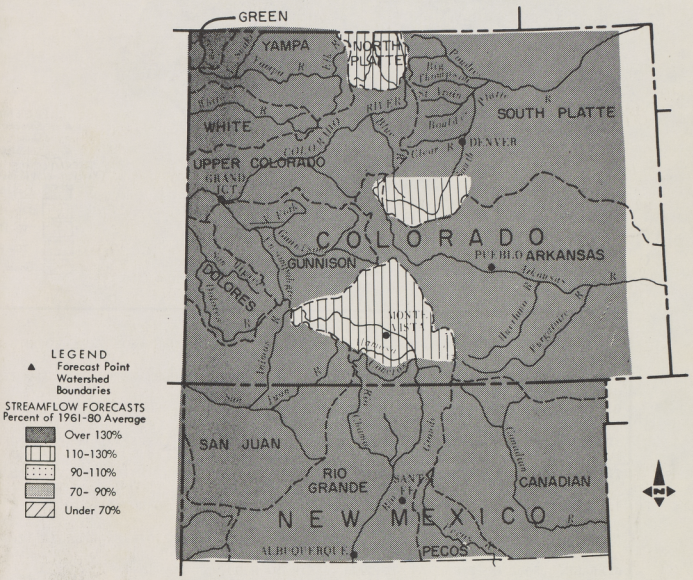
Denver, Colorado

COLORADO AND NEW MEXICO WATER SUPPLY OUTLOOK

AS OF
FEBRUARY 1, 1984



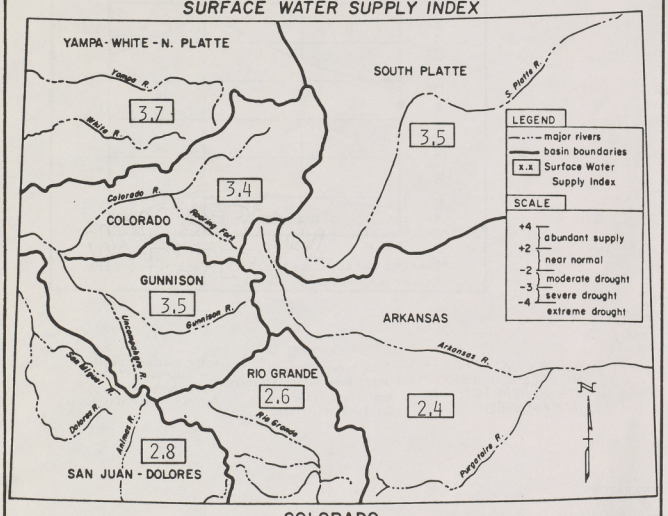
STREAMFLOW FORECAST



The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improve. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.

Date: February 1, 1984

SURFACE WATER SUPPLY INDEX



COLORADO

The Surface Water Supply Index (SWSI) is a weighted value derived for each major basin which generally expresses the potential availability of the forthcoming season's water supply. The components used in computing the index are reservoir storage, snowpack water equivalent, and precipitation. The SWSI number for each basin ranges from a -4.00 (prospective water supplies extremely poor) to a +4.00 (prospective water supplies plentiful). The SWSI number is only a general indicator of surface water supply conditions. Further data analyses may be required in specific situations to more fully understand the impacts of abnormally dry or wet conditions suggested by the SWSI. Development of the SWSI has been a cooperative effort between the Colorado State Engineers' Office and the Soil Conservation Service.

WATER SUPPLY CONDITIONS as of February 1, 1984

SNOW COURSE MEASUREMENTS TAKEN THE LAST WEEK OF JANUARY INDICATE A SUBSTANTIAL DECREASE IN MOUNTAIN SNOWPACK STATISTICS. THIS WAS DUE TO BELOW NORMAL PRECIPITATION OVER MUCH OF COLORADO AND NORTHERN NEW MEXICO DURING JANUARY. EVEN THOUGH PRECIPITATION WAS LIGHT FOR THE MONTH, SNOWPACK STATISTICS REMAIN WELL ABOVE AVERAGE FOR THIS TIME OF YEAR. TWENTY-FOUR SNOW COURSES MEASURED IN COLORADO HAVE NEW MAXIMUMS ON RECORD, AND THREE HAVE TIED THE OLD RECORD. IN NORTHERN NEW MEXICO FIVE NEW MAXIMUMS ON RECORD WERE SET. EXPECTED SNOWMELT RUNOFF VOLUMES HAVE DECREASED 10 TO 15% FROM THE FORECASTS MADE JANUARY 1 IN COLORADO. STREAMFLOW VOLUMES IN NEW MEXICO RANGE FROM NEAR AVERAGE TO MUCH ABOVE AVERAGE. ALL FORECASTS ARE A JOINT EFFORT OF THE SOIL CONSERVATION SERVICE AND THE NATIONAL WEATHER SERVICE.

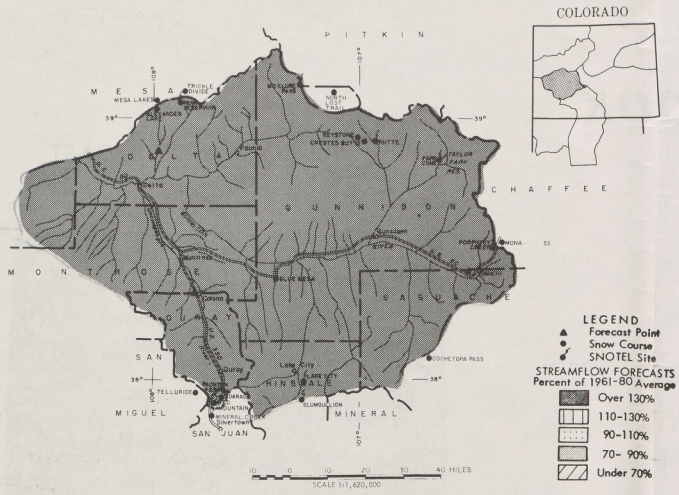
COLORADO STATEWIDE SNOWPACK IS CURRENTLY 147% OF AVERAGE, DOWN FROM THE RECORD BREAKING JANUARY 1 READING OF 207%. THIS IS 171% OF LAST YEAR. THREE MAJOR DRAINAGE BASINS HAVE SNOWPACK STATISTICS OVER 160% OF AVERAGE, AND ARE THE ARKANSAS, COLORADO, AND GUNNISON RIVER BASINS. EXPECTED APRIL-SEPTEMBER STREAMFLOW VOLUMES RANGE FROM A LOW OF 120% OF AVERAGE ON THE SOUTH PLATTE AT SOUTH PLATTE, TO A HIGH OF 183% OF AVERAGE FOR THE GUNNISON RIVER NEAR GRAND JUNCTION. STATEWIDE RESERVOIR STORAGE IS CURRENTLY 59% ABOVE AVERAGE COMPARED TO 40% ABOVE AVERAGE LAST YEAR.

NEW MEXICO STATEWIDE SNOWPACK IS CURRENTLY 167% OF AVERAGE AND 138% OF LAST YEAR. THIS IS DOWN FROM 246% OF AVERAGE FOR JANUARY 1, 1984. LOW ELEVATION PRECIPITATION RANGED FROM 21% OF AVERAGE AT CUBA FOR A LOW, TO A HIGH OF 150% OF AVERAGE AT CANJILON RANGER STATION FOR THE MONTH. SEASONAL TOTALS ARE NOW GENERALLY NEAR NORMAL. AN EXCELLENT WATER SUPPLY OUTLOOK CURRENTLY IS ANTICIPATED. RESERVOIR STORAGE IS 237% OF NORMAL. LAST YEAR WAS 189% OF NORMAL.

"The Conservation of Water begins with the Snow Survey"

USDA SCS PORTLAND, OR 1981

GUNNISON RIVER WATERSHED IN COLORADO



YOUR WATER SUPPLY

MOUNTAIN SNOWPACK IS CURRENTLY 60% ABOVE NORMAL, DOWN FROM 729% A MONTH AGO. THE HIGHEST SNOWPACK IN THE BASIN OCCURS IN THE UNCOMPAHGRE WATERSHED, AND IS 162% OF AVERAGE. FOUR SNOW COURSES RECORDED NEW MAXIMUMS ON RECORD. AMONG THESE WERE IDARADO AND IRONTON PARK IN THE UNCOMPAHGRE RIVER, MESA LAKES AND PORPHYRY CREEK IN THE GUNNISON AND SURFACE CREEK DRAINAGES. AN EXCELLENT WATERSUPPLY OUTLOOK IS EXPECTED. THE GUNNISON RIVER NEAR GRAND JUNCTION IS FORECASTED TO HAVE 83% ABOVE NORMAL FLOWS FOR THE APRIL-SEPTEMBER PERIOD. RESERVOIR STORAGE IS 124% OF AVERAGE. SOIL MOISTURE IS GENERALLY FAIR TO GOOD.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1961-80 Average
East River At Almont	305	151	202.4
Gunnison River inflow to Blue Mesa Reservoir (1)	1330	169	803.2
Gunnison River near Grand Junction (2)	2300	183	1265.0
North Fork of Gunnison (3)	475	166	285.9
Surface Creek near Cedaredge	23	133	17.3
Taylor River Inflow to Taylor Park Reservoir	176	156	114.7
Uncompahgre River at Colona	207	155	133.8

(1) Observed flow plus change in storage in Taylor Reservoir. (2) Observed flow plus change in storage in Blue Mesa, Morrow Point and Taylor Reservoirs. (3) Observed flow plus change in storage in Paonia Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply

STREAM or AREA	Flow Period: Spring Season	Flow Period: Late Season
Ohio Creek	Excellent	Excellent
Slate River	Excellent	Excellent
Tomichi Creek	Excellent	Excellent

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and/or RESERVOIR	Usable Capacity	Usable Storage: This Year	Usable Storage: Last Year	Usable Storage: 1961-80 Average
Blue Mesa	830	490	540	391
Crawford 1/	14	11	11	7
Fruitgrowers	4	4	4	3
Fruitland	9	5	2	3
Morrow Point 1/	121	115	115	103
Taylor	106	62	70	61

1/ Period of record less than 15 years.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF: Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF: 1961-80 Average
Gunnison	12	183	160
Surface Creek	3	109	159
Uncompahgre	4	191	162

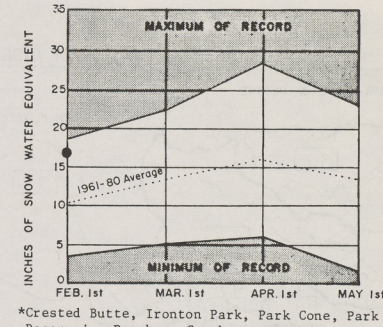
SNOW COURSE MEASUREMENTS

SNOW COURSE	CURRENT INFORMATION: DATE OF SURVEY	CURRENT INFORMATION: SNOW DEPTH (INCHES)	CURRENT INFORMATION: WATER CONTENT (INCHES)	PAST RECORD: WATER CONTENT (INCHES) LAST YEAR	PAST RECORD: WATER CONTENT (INCHES) AVG. 61-80	
GUNNISON BASIN						
Gunnison River						
Alexander Lake	1/26	60	21.4	20.0	13.3	
Blue Mesa		DISCONTINUED				D
Butte	1/27	51	18.5	5.1	10.1	*
Cochetopa Pass (B)	1/26	27	7.0	2.1	3.9	
Crested Butte	1/27	46	14.9	5.0	9.1	
Keystone	1/31	62	22.6	9.0	13.9	
Lake City	1/31	32	8.3	3.2	5.4	*
Mesa Lakes (B)	1/26	54	18.9	16.0	10.5	
McClure Pass	1/27	46	14.0	7.8	10.6	
Park Cone	1/26	39	12.2	3.6	6.6	
Park Reservoir	1/26	64	21.6	20.6	15.2	
Porphyry Creek	1/27	54	18.1	5.8	11.0	
Slumgullion	1/31	43	12.9	6.0	9.1	*
Tomichi		DISCONTINUED				D
Surface Creek						
Alexander Lake	1/26	60	21.4	20.0	13.3	
Mesa Lakes	1/26	54	18.9	16.0	10.5	
Park Reservoir	1/26	64	21.6	20.6	15.2	
Uncompahgre River						
Idarado	1/30	49	15.6	7.4	9.6	
Ironton Park	1/30	51	18.0	7.6	9.2	
Red Mountain Pass	1/26	84	28.2	17.3	19.6	
Telluride (B)	1/23	36	9.2	4.8	5.5	

NS-No survey.
(B)-On adjacent drainage.
*Less than 15 years of record.
D Snow course discontinued. Estimates available thru SCS office.

WATERSHED SNOWPACK

Based on 5 Selected Snow Courses*



*Crested Butte, Ironton Park, Park Cone, Park Reservoir, Porphyry Creek.

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SNOW SURVEY UNIT
2490 WEST 26TH AVE.
DENVER, COLORADO 80211

LIST OF COOPERATORS

The SCS administers the Cooperative Snow Survey Program in cooperation with other federal, state, and local agencies as well as private organizations and individuals. The following oranizations cooperate in Colorado and New Mexico Snow Surveys.

STATE

Colorado State Engineer
Colorado State Soil Conservation Board
New Mexico State Engineer
Colorado State University Experiment Station
Rocky Mountain Forest and Range Experiment Station
New Mexico Dept. of Game and Fish
University of Colorado, INSTAAR

FEDERAL

Department of Agriculture
- Forest Service
- Soil Conservation Service

Department of Interior
- Bureau of Reclamation
- Geological Survey
- National Park Service

Department of Commerce
- NOAA, National Weather Service
- NOAA, National Environmental Satellite Servie

Defense Department
- Army Engineer Corps
- National Aeronautics and Space Administration
- Goddard Space Flight Center

INVESTOR OWNED UTILITIES

Colorado Public Service Company
Public Service Company of New Mexico

MUNICIPALITIES

City of Denver
City of Boulder
City of Greeley
City of Fort Collins

WATER USERS ORGANIZATIONS

Arkansas Valley Ditch Association
Colorado River Water Conservation District

IRRIGATION PROJECTS

Farmers Reservoir and Irrigation Company
San Luis Valley Irriation District
Santa Maria Reservoir Company
Costilla Land Company
Montezuma Irrigation Co.
Uncompahgre Valley Water Users' Association
Twin Lakes Reservoir and Canal Company
Trinchera Irrigation Co.

CORPORATIONS

Aspen Skiing Corp.
Colorado Fuel and Iron Corp.
Climax Molybdenum Corp.
Copper Mountain Ski Area
Lake Eldora Corp.
Vail Associates, Incorporated
Taylor Lumber and Land Company
Idarado Mining Corp.

PRIVATE CITIZENS

Otto Goemmer, Colorado
Moreno Ranch, New Mexico

Many other organizations and individuals furnish valuable information for the snow survey and water supply forecast reports. Their assistance is gratefully acknowledged.

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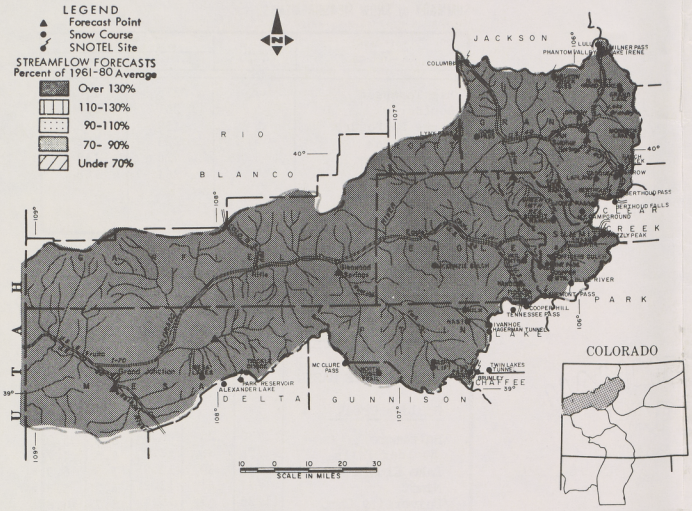
COLORADO RIVER WATERSHED IN COLORADO



YOUR WATER SUPPLY

TWELVE SNOW COURSES RECORDED NEW MAXIMUMS FOR FEBRUARY 1, NEARLY HALF OF THE TOTAL FOR THE STATE. SEVEN OF THESE ARE IN THE UPPER COLORADO BASIN. CURRENT SNOWPACK STATISTICS OVER THE ENTIRE BASIN IS 160% OF AVERAGE, AND 185% OF LAST YEAR. LOW ELEVATION PRECIPITATION AT BEST WAS ONLY 50% OF AVERAGE FOR THE MONTH, BUT SEASONAL TOTALS STILL REMAIN AT OR ABOVE NORMAL. STREAMFLOW VOLUMES ARE ALL ABOVE AVERAGE AND ARE EXPECTED TO HAVE EXCELLENT FLOWS DURING THE LATE SUMMER MONTHS. THE COLORADO RIVER AT DOTSERO SHOULD EXPECT 52% ABOVE NORMAL. RESERVOIR STORAGE AS INDEXED BY EIGHT RESERVOIRS, INDICATE STORAGE IS 165% OF NORMAL.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1961-80 Average
Blue River inflow to Dillon Reservoir	240	140	171.1
Blue River inflow to Green Mountain Reservoir (1)	450	150	300.8
Colorado River near Camero (2)	3720	152	2462.0
Colorado River near Dotsero (3)	2275	152	1494.8
Colorado River inflow to Granby Reservoir (4)	340	148	230.3
Eagle River below Gypsum	525	167	308.4
East Fork Troublesome Creek near Troublesome	30	155	19.3
Roaring Fork at Glenwood Springs (5)	1200	164	733.5
Williams Fork near Parshall (6)	98	157	62.5
Willow Creek inflow to Willow Creek Reservoir	75	145	51.7

(1) Observed flow plus diversions through Roberts Tunnel and change in storage in Dillon Reservoir. (2) Observed flow plus the changes as indicated in (1) and (3). (3) Observed flow plus the changes as indicated in (1), (2) and (6) plus Moffat Ditch and change in Homestake, William Fork, Ceran St. and Willow Creek Reservoirs. (4) Observed flow corrected for change in storage in Lake Granby as furnished by U.S.B.R. and diversions by Adams Tunnel and Grand River Ditch. (5) Observed flow plus diversions through Hoosier and Twin Lakes Tunnels plus change in storage in Ruedi Reservoir. (6) Observed flow plus diversions through Vasquez Tunnel.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and or RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	1961-80 Average
Dillon	251	241	249	197
Granby	466	403	221	254
Green Mountain	139	89	91	77
Homestake 1/	43	42	6	22
Ruedi 1/	102	76	82	72
Vega	32	19	23	10
Williams Fork	97	49	62	42
Willow Creek	9	8	7	6

1/ Period of record less than 15 years.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Brush	Excellent	Average
Gypsum Creek	Excellent	Average

SUMMARY of SNOW MEASUREMENTS

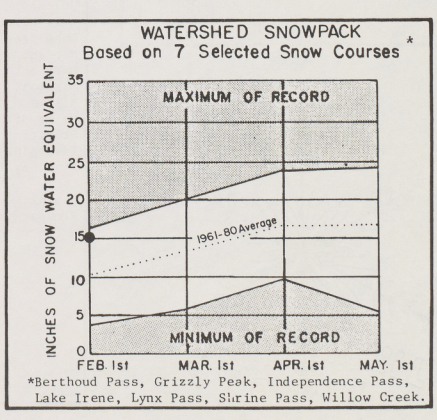
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	1961-80 Average
Blue River	7	229	160
Colorado	19	198	164
Plateau	3	106	150
Roaring Fork	7	200	152
Williams Fork	4	198	177
Willow Creek	2	201	150

SNOW COURSE MEASUREMENTS

SNOW COURSE	CURRENT INFORMATION			PAST RECORD		
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES) LAST YEAR	WATER CONTENT (INCHES) AVG 61-80	
COLORADO BASIN						
Blue River						
Blue River	1/30	34	9.0	4.6	5.5	
Fremont Pass	1/30	53	17.7	6.6	10.3	
Grizzly Peak	1/30	51	17.5	7.6	11.1	
Hoosier Pass	1/30	43	12.5	5.7	8.1	
Officers Gulch		DISCONTINUED				D
Shrine Pass	1/30	54	14.2	7.6	10.8	
Snake River	1/30	35	9.8	4.0	5.5	
Summit Ranch	1/26	36	9.3	3.4	4.8	
Colorado River						
Arrow	1/27	48	14.3	7.9	8.5	
Berthoud Pass	1/30	55	19.0	10.0	9.9	
Berthoud Summit	1/30	66	20.8	10.0	11.8	
Cooper Hill		DISCONTINUED				D
Copper Mountain	1/31	48	16.0	7.0	8.4	*
Glenmar Ranch	1/26	38	10.4	5.1	5.6	
Gore Pass	1/25	35	9.1	4.3	7.0	
Grand Lake	1/28	38	10.3	4.9	5.4	
Lake Irene	1/29	65	20.2	11.8	13.8	
Lapland	1/30	38	11.0	5.5	6.7	
Lulu		DISCONTINUED				D
Lynx Pass	1/25	39	9.6	6.0	8.0	
McKenzie Gulch		DISCONTINUED				D
Middle Fork	1/26	40	10.9	6.1	6.3	
Milner	1/29	49	14.5	7.4	9.4	
North Inlet	1/27	34	8.4	4.5	5.8	
Pando	1/30	32	6.4	2.8	6.2	
Phantom Valley	1/28	44	13.1	6.8	6.9	
Ranch Creek	1/27	41	11.5	5.6	6.1	
Tennessee Pass	1/30	35	10.3	3.6	6.6	
Vail Mountain	1/30	66	24.0	10.6	14.4	*
Vasquez	1/31	45	13.6	7.8	8.0	
Plateau Creek						
Mesa Lakes	1/26	54	18.9	16.0	10.5	
Park Reservoir	1/26	64	21.6	20.6	15.2	
Trickle Divide	1/27	67	22.4	23.0	16.2	
Roaring Fork						
Aspen		DISCONTINUED				D
Hagerman Tunnel	N/S			-	-	
Independence Pass	1/20	49	15.0	9.3	10.1	
Ivanhoe	1/26	60	17.4	8.7	11.1	
Kiln	1/26	43	11.6	4.8	7.6	*
Lift	1/25	55	19.6	8.6	10.7	
McClure Pass	1/27	46	14.0	7.8	10.6	
Nast	1/26	29	7.2	2.6	4.7	
North Lost Trail	1/27	48	14.7	8.0	10.6	
Williams Fork River						
Glenmar Ranch	1/26	38	10.4	5.1	5.6	
Jones Pass	1/30	52	16.6	9.1	9.3	
Middle Fork	1/26	40	10.9	6.1	6.3	
Ute Pass	1/27	43	12.1	5.0	7.0	*
Willow Creek						
Granby	1/27	33	8.2	2.9	5.2	
Willow Creek Pass	1/30	39	11.1	6.7	8.1	

NS-No survey.
(B)-On adjacent drainage.
* Less than 15 years of record.
D Snow course discontinued. Estimates available thru SCS office.



*Berthoud Pass, Grizzly Peak, Independence Pass, Lake Irene, Lynx Pass, Shrine Pass, Willow Creek.

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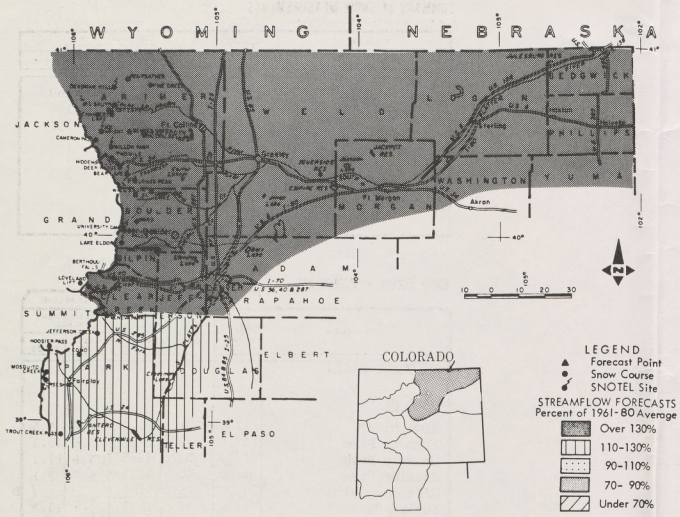
SOUTH PLATTE RIVER WATERSHED IN COLORADO



YOUR WATER SUPPLY

SNOWPACK STATISTICS FOR THE SOUTH PLATTE BASIN TOOK THE SHARPEST DECLINE IN THE STATE, DOWN 74% FROM JANUARY 1 READINGS, AND IS CURRENTLY 138% OF NORMAL. THIS DECLINE IS INDICATIVE OF THE BELOW NORMAL LOW ELEVATION PRECIPITATION THAT OCCURRED ALONG THE FRONT RANGE. PRECIPITATION RANGED FROM A LOW OF 22% FOR THE MONTH AT ALLENS PARK, TO A HIGH AT BOULDER OF 87% OF NORMAL. SEASONAL TOTALS ARE NOW NEAR AVERAGE TO 40% ABOVE AVERAGE. ADEQUATE SNOWMELT RUNOFF VOLUMES CAN BE EXPECTED DURING THE EARLY SUMMER MONTHS, BUT TAPERING OFF IN THE LATER MONTHS. RESERVOIR STORAGE IS GOOD AND IS 113% OF NORMAL.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1961-80 Average
Bear Creek at Morrison	38	132	28.7
Big Thompson River at Drake (1)	155	136	114.0
Boulder Creek at Orodell	68	145	46.7
Cache La Poudre River at Canyon Mouth (2)	380	142	268.0
Clear Creek at Golden (3)	170	134	127.0
St. Vrain Creek at Lyons	105	133	78.8
South Boulder Creek near Eldorado Springs	55	130	42.1
South Platte River at South Platte	236	120	197.0

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion by Berthoud Ditch, plus City of Golden and Church Ditch diversions.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply

STREAM or AREA	Flow Period: Spring Season	Flow Period: Late Season
Coal Creek	Excellent	Average
North Fork of South Platte	Excellent	Average
North Fork of Cache La Poudre	Excellent	Average
Ralston Creek	Excellent	Average
Rock Creek	Excellent	Average
South Platte from Greeley to Fort Morgan	Excellent	Average
South Platte from Fort Morgan to Sterling	Average	Fair
South Platte below Sterling	Average	Fair

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and or RESERVOIR	Usable Capacity	Usable Storage: This Year	Usable Storage: Last Year	Usable Storage: 1961-80 Average
Antero	16	16	16	14
Barr Lake	32	22	26	22
Black Hollow	8	4	5	4
Boyd Lake	48	40	36	36
Cache La Poudre	10	9	9	7
Carter Lake	114	84	86	80
Chambers Lake	9	4	5	3
Cheesman	79	75	78	50
Cobb Lake	34	20	20	14
Eleven Mile	98	98	75	88
Empire	38	14	28	22
Fossil Creek	12	0	6	7
Gross	43	31	29	27
Halligan	6	6	6	4
Horsetooth	144	117	104	83
Jackson	35	28	26	29
Julesburg	28	21	21	20
Lake Loveland	14	10	10	9
Lone Tree	9	8	8	6
Mariano	6	4	5	5
Marshall	10	8	8	4
Marston	18	15	16	15
Milton	24	15	16	13
Point of Rocks	70	58	63	55
Prewitt	33	18	25	17
Riverside	58	15	53	42
Standley	42	40	39	21
Terry	8	6	5	5
Union	13	12	13	10
Windsor	19	13	12	10
Horsecreek	16	13	9	9

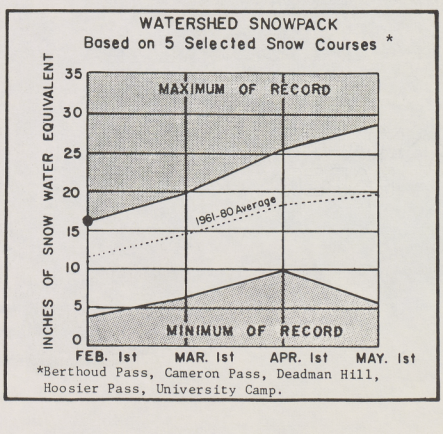
SUMMARY of SNOW MEASUREMENTS
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF: Last Year	1961-80 Average
Big Thompson	7	255	150
Boulder	5	251	168
Cache La Poudre	8	159	146
Clear Creek	5	223	152
Saint Vrain	3	426	149
South Platte	7	261	148

SNOW COURSE MEASUREMENTS

SNOW COURSE	CURRENT INFORMATION: DATE OF SURVEY	CURRENT INFORMATION: SNOW DEPTH (INCHES)	CURRENT INFORMATION: WATER CONTENT (INCHES)	PAST RECORD: WATER CONTENT (INCHES): LAST YEAR	PAST RECORD: WATER CONTENT (INCHES): AVG 61-80	
SOUTH PLATTE BASIN						
Boulder Creek						
Baltimore	1/30	25	6.8	3.6	5.0	
Boulder Falls	1/26	38	12.0	4.5	7.7	
Lake Eldora	1/31	39	12.8	5.8	6.9	*
Niwot	1/27	41	13.2	4.2	5.3	*
University Camp	1/26	47	15.1	5.7	10.8	
Big Thompson River						
Bear Lake	1/31	43	14.1	4.9	10.3	*
Deer Ridge	1/29	25	8.5	0.7	3.3	
Hidden Valley	1/29	33	9.4	2.5	6.6	
Lake Irene (B)	1/29	65	20.2	11.8	13.8	
Longs Peak	1/30	34	11.0	3.1	6.7	
Two Mile	1/29	40	11.6	4.3	9.1	
Willow Park	2/01	49	18.0	9.1	11.9	*
Cache La Poudre						
Bennett Creek	1/26	32	8.2	3.2	4.9	
Big South	1/30	16	4.9	2.7	1.5	
Cameron Pass	1/30	64	23.8	17.1	17.7	
Chambers Lake	1/30	24	7.7	4.2	6.4	
Deadman Hill	1/31	40	12.6	7.8	10.5	
Hourglass Lake	1/26	31	7.8	3.5	4.6	
Joe Wright	1/30	64	22.2	17.0	15.8	*
Lost Lake		DISCONTINUED				D
Pine Creek	2/1	15	4.5	2.2	1.6	
Red Feather		DISCONTINUED				D
Clear Creek						
Baltimore (B)	1/30	25	6.8	3.6	5.0	
Berthoud Falls	1/30	47	13.6	6.4	9.0	
Empire	1/30	27	7.4	2.4	4.6	
Grizzly Peak (B)	1/30	51	17.5	7.6	11.1	
Loveland Pass	1/30	44	14.8	6.9	9.8	
St. Vrain River						
Copeland Lake	1/28	20	5.2	0.9	3.3	
Ward	1/31	28	8.0	1.6	3.8	
Wild Basin	1/28	34	9.4	2.8	8.1	
South Platte River						
Bison Reservoir	1/31	13	3.5	1.7	-	
Como	1/26	24	6.6	2.4	4.4	
Geneva Park	1/29	20	4.1	1.4	2.8	
Horseshoe Mountain	1/25	34	9.8	3.2	6.7	*
Hoosier Pass	1/30	43	12.5	5.7	8.1	
Jefferson Creek	1/26	35	9.6	4.0	6.1	
Mosquito	1/25	34	9.2	3.5	6.6	
Sundance	1/29	38	10.3	4.7	-	
Trout Creek Pass	1/25	20	4.6	1.4	3.4	

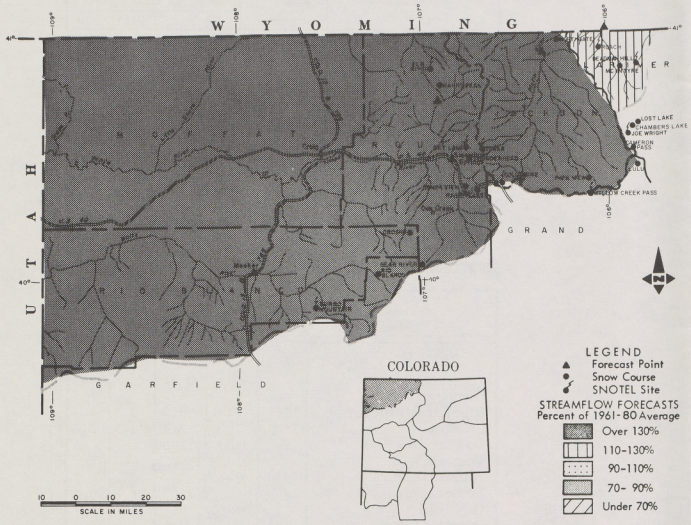
NS-No survey.
(B)-On adjacent drainage.
*Less than 15 years of record.
D Snow course discontinued. Estimates available thru SCS office.



*Berthoud Pass, Cameron Pass, Deadman Hill, Hoosier Pass, University Camp.

USDA SCS PORTLAND, OR 1981

YAMPA, WHITE AND NORTH PLATTE RIVER WATERSHEDS IN COLORADO



YOUR WATER SUPPLY

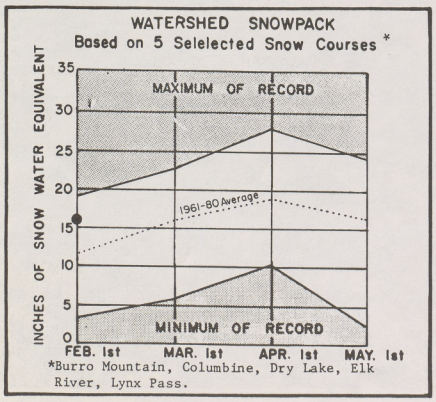
CURRENT SNOWPACK IS 138% OF NORMAL, COMPARED TO 193% ONE MONTH AGO. THE UPPER PORTIONS OF THE YAMPA AND WHITE WATERSHEDS HAVE SNOWPACK STATISTICS OF 145% AND 142% OF NORMAL RESPECTIVELY. SNOW SURVEYORS MEASURED THE DEEPEST SNOWPACK AT TOWER LOCATED NEAR BUFFALO PASS AT 127 INCHES DEEP AND CONTAINED 47.1 INCHES OF WATER. PROJECTED SNOWMELT RUNOFF VOLUMES RANGE FROM 33% ABOVE AVERAGE FOR THE WHITE RIVER ABOVE RANGELY, TO 47% ABOVE AVERAGE FOR THE YAMPA RIVER AT MAYBELL. EARLY SUMMER AND SPRING CAN EXPECT EXCELLENT WATER SUPPLIES TAPERING OFF DURING LATE SUMMER, BUT NO SHORTAGES SHOULD EXIST. SOIL MOISTURE FAIR IN THE IRRIGATED AREAS.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1961-80 Average
Elk River at Clark	290	140	207.2
Laramie River near Woods	172	130	132.0
Little Snake River at Lily	530	148	356.8
North Platte River at Northgate	320	122	262.0
White River near Meeker	420	138	304.2
White River above Rangely	430	133	324.0
Yampa River near Maybell	1410	147	956.0
Yampa River at Steamboat Springs	410	144	284.2

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period: Spring Season	Flow Period: Late Season
Canadian River	Excellent	Average
Hunt Creek	Excellent	Average
Illinois River	Excellent	Average
Michigan River	Excellent	Average
Oak Creek	Excellent	Average
Trout Creek	Excellent	Average



*Burro Mountain, Columbine, Dry Lake, Elk River, Lynx Pass.

SUMMARY of SNOW MEASUREMENTS
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF: Last Year	1961-80 Average
Elk	2	166	114
Laramie	2	168	127
North Platte	5	160	133
White	2	157	142
Yampa	5	163	145

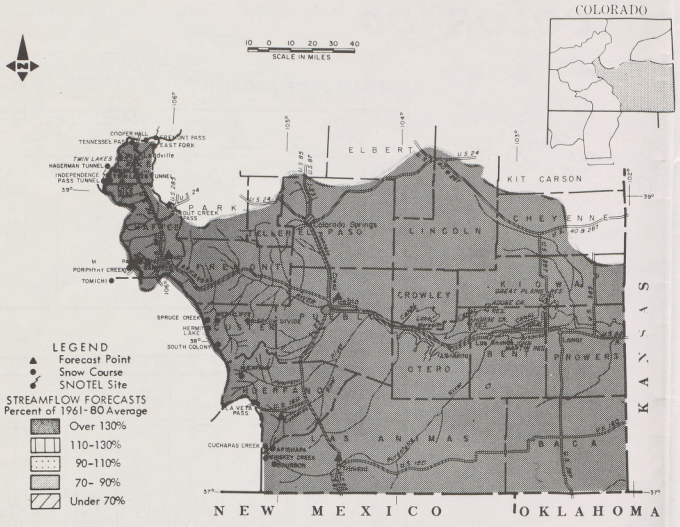
SNOW COURSE MEASUREMENTS

SNOW COURSE	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	PAST RECORD: WATER CONTENT (INCHES) LAST YEAR	AVG 61-80
NORTH PLATTE BASIN					
Laramie River					
Deadman Hill	1/31	40	12.6	7.8	10.5
McIntyre	N/S	-	-	-	7.9 *
Roach	1/27	56	16.0	9.2	12.0
North Platte River					
Cameron Pass	1/30	64	23.8	17.1	17.7
Columbine Lodge	1/25	62	20.3	11.5	15.3
Northgate	1/30	24	5.4	2.4	4.1
Park View	1/30	31	7.6	4.9	6.1
Willow Cr. Pass (B)	1/30	39	11.1	6.7	8.1
YAMPA BASIN					
Elk River					
Elk River	1/24	51	13.6	8.4	12.0
Hahn's Peak	1/24	48	12.3	7.2	10.7 *
White River					
Burro Mountain	1/30	49	15.8	11.1	11.2
Rio Blanco	1/31	45	13.5	7.6	9.5
Yampa River					
Bear River		DISCONTINUED			D
Columbine (B)	1/25	62	20.3	11.5	15.3
Crosho	N/S	-	-	-	-
Dry Lake	1/27	63	20.9	12.0	12.5
Lynx Pass (B)	1/25	39	9.6	6.0	8.0
Rabbit Ears	1/25	76	24.0	17.3	16.3
Tower	1/27	127	47.1	-	32.3
Yampa View	1/25	53	16.2	8.9	10.5

NS-No survey.
(B)-On adjacent drainage.
*Less than 15 years of record.
D Snow course discontinued. Estimates available thru SCS office.
N/S No survey.

USDA SCS PORTLAND, OR 1981

ARKANSAS RIVER WATERSHED IN COLORADO



YOUR WATER SUPPLY

SNOWPACK IN THE ARKANSAS BASIN IS THE HIGHEST IN THE STATE, AND IS CURRENTLY 161% OF AVERAGE. THE UPPER REACHES OF THE ARKANSAS HAVE SNOWPACK STATISTICS NEAR 70% ABOVE NORMAL. THE LOWEST WATERSHED IS THE PURGATOIRE AT 128% OF AVERAGE. SNOWMELT RUNOFF VOLUMES ALONG THE MAIN STEM OF THE ARKANSAS RIVER ARE WELL ABOVE NORMAL, WITH THE ARKANSAS RIVER ABOVE PUEBLO AT 170% OF AVERAGE, AND AT SALIDA AT 150%. THE PURGATOIRE RIVER AT TRINIDAD IS EXPECTED TO PRODUCE 25% ABOVE NORMAL STREAMFLOW FOR THE APRIL-SEPTEMBER PERIOD. RESERVOIR STORAGE IS EXCELLENT AT 283% OF AVERAGE, DOWN FROM 324% JANUARY 1 IN ANTICIPATION OF ABOVE NORMAL SNOWMELT RUNOFF.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1961-80 Average
Arkansas River above Pueblo (1)	473	170	278.0
Arkansas River at Salida (2)	450	150	300.0
Cucharas River near La Veta	14	127	11.0
Grape Creek near Westcliffe	24	150	16.0
Huerfano River near Redwing	20	133	15.0
Purgatoire River at Trinidad (3)	45	125	36.0
Chalk Creek	32	150	21.5

(1) Plus change in storage in Pueblo Reservoir. (2) Observed flow plus change in Clear Creek, Twin Lakes and Turquoise Reservoirs minus diversions through Busk Ivanhoe, Boustead, Divide Twin Lakes and Homestake Tunnels and Ewing, Fremont Pass, Hurts and Columbine ditches. (3) Change in storage in Trinidad Reservoir.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and/or RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	1961-80 Average
Adobe	62	45	28	9
Clear Creek	11	5	10	7
Great Plains	150	28	6	32
Holbrook Lake 1/	7	1	3	4
Horse Creek	27	8	2	5
John Martin	621	100	47	42
Lake Henry 1/	8	4	4	4
Meredith	42	33	0	7
Pueblo	354	254	156	-
Trinidad	158	39	50	-
Turquoise	127	96	75	34
Twin Lakes	86	84	42	25

1/ Period of record less than 15 years.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Apishapa River	Average	Fair
Fountain Creek	Average	Fair
Hardscrabble Creek	Average	Fair
Monument Creek	Average	Fair

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

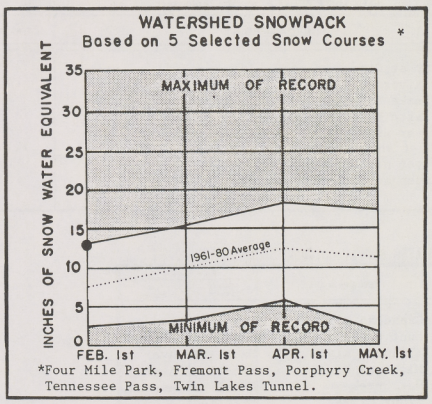
RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	1961-80 Average
Arkansas	8	277	169
Cucharas	3	150	148
Purgatoire	1	182	128

SNOW COURSE MEASUREMENTS

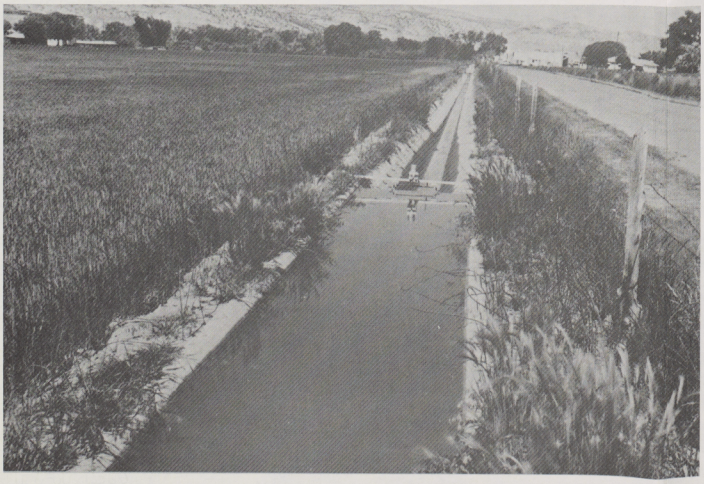
SNOW COURSE	CURRENT INFORMATION			PAST RECORD		
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES) LAST YEAR	WATER CONTENT (INCHES) AVG 61-80	
ARKANSAS BASIN						
Arkansas River						
Bigelow Divide	1/27	22	5.5	3.9	4.5	
Brumley	1/30	39	12.4	3.9	6.4	*
Cooper Hill (B)		DISCONTINUED				D
East Fork		DISCONTINUED				D
Four Mile Park	1/30	28	7.7	2.2	4.2	
Fremont Pass	1/30	53	17.7	6.6	10.3	
Garfield		DISCONTINUED				D
Hermit Lake	1/27	32	9.3	-	-	
Monarch Pass	1/27	55	18.7	4.6	11.1	
South Colony	1/30	56	19.6	12.0	-	
Spruce Creek	1/30	31	8.2	2.2	-	
Tennessee Pass	1/30	35	10.3	3.6	6.6	
Twin Lakes Tunnel	1/20	40	11.9	5.3	6.4	
Westcliffe	1/27	31	8.1	3.2	5.3	
Saint Elmo	N/S	-	-	3.4	7.7	
Cucharas River						
Apishapa	1/27	26	6.5	5.6	5.2	
Cucharas Creek	1/30	28	8.2	6.0	5.2	*
Huerfano	1/26	28	7.3	3.4	-	
La Veta Pass (B)	1/30	38	11.6	5.9	7.4	*
Purgatoire River						
Bourbon	1/26	27	6.0	3.3	4.7	
Whiskey Creek	1/26	35	9.1	5.1	-	

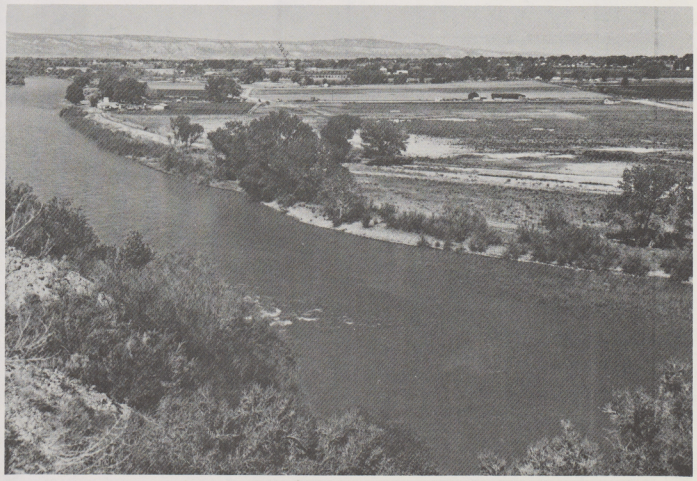
%S-%o survey.
(B)-In adjacent drainage.

*Less than 15 years of record.
D Snow course discontinued. Estimates available thru SCS office.
N/S No survey.



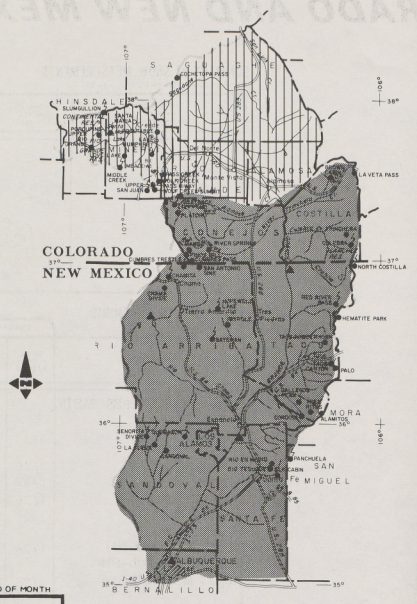
*Four Mile Park, Fremont Pass, Porphyry Creek, Tennessee Pass, Twin Lakes Tunnel.





USDA SCS PORTLAND OR 1981

RIO GRANDE WATERSHED IN COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

SNOWPACK CONDITIONS IN THE UPPER REACHES OF THE RIO GRANDE ARE 120% OF AVERAGE, AND 137% OF AVERAGE FOR THE ENTIRE COLORADO PORTION, DOWN 49% FROM JANUARY 1 READINGS. MOUNTAIN SNOWPACK NEAR CUMBRES PASS AND ON SOUTHWARD INTO NEW MEXICO INCREASES SHARPLY, AND IS 167% OF AVERAGE. THE HIGHEST SNOWPACK STATISTICS IN NEW MEXICO IS IN THE RIO CHAMA WATERSHED AT 76% ABOVE NORMAL. FIVE NEW MAXIMUM SNOW COURSE READINGS WERE MEASURED FOR FEBRUARY 1. STREAMFLOW VOLUMES ALONG THE MAIN STEM OF THE RIO GRANDE IN COLORADO RANGE FROM 23% TO 27% ABOVE AVERAGE, WHILE IN NEW MEXICO IT INCREASES SUBSTANTIALLY TO 74% ABOVE AVERAGE AT SAN MARCIAL. MOST OTHER SMALLER TRIBUTARIES ARE EXPECTED TO HAVE NEAR AVERAGE TO MUCH ABOVE AVERAGE FLOWS. RESERVOIR STORAGE IN COLORADO IS 166% OF AVERAGE, AND IN NEW MEXICO IT IS 237%. SOIL MOISTURE THROUGHOUT THE AREA IS RATED ONLY FAIR.

STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	Forecast	% of Average	1961-80 Average
COLORADO (April-September)			
Alamosa Creek above Terrace Reservoir	86	130	66.0
Conejos River near Mogote (1)	270	138	195.0
Culebra Creek at San Luis (2)	25	139	18.0
La Jara Creek near Capulin	12	154	7.8
Los Pinos River near Ortiz	100	145	69.0
Rio Grande at Thirty Mile Bridge (3)	160	127	126.0
Rio Grande near Del Norte (3)	615	124	494.0
Rio Grande at Wagon Wheel Gap (3)	380	123	310.0
Saguache Creek near Saguache	40	133	30.0
San Antonio River at Ortiz	22	145	15.2
South Fork of Rio Grande at South Fork	160	126	127.0
Trinchera Water Supply (April-July) (6)	38	144	26.3
NEW MEXICO (March-July)			
Costilla Creek at Costilla (4)	21	110	19.0
Gallinas Creek near Montezuma	10	143	7.0
Jemez River near Jemez	44	110	40.0
Pecos River at Pecos	62	138	45.0
Red River at Mouth	35	116	30.0
Rio Chama at El Vado	350	168	208.0
Rio Grande at Otowi (5)	930	155	600.0
Rio Grande at San Marcial (5)	730	174	420.0
Rio Hondo near Valdez	20	135	15.0
Rio Pueblo de Taos below Los Cordovas	37	137	27.0
Santa Cruz River at Cudiyo	18	129	14.0
Santa Fe near Santa Fe	32	110	2.9

(1)Observed flow plus change in storage in Platoro Reservoir. (2)Observed flow plus change in storage in Sanchez Reservoir. (3)Observed flow plus change in storage in Santa Maria, Rio Grande and Continental Reservoirs. (4)Observed flow plus change in storage in El Vado and Abiquiu Reservoirs. (5)Sum of Trinchera Creek near Fort Garland, Ute Creek near Fort Garland, Sangre de Cristo Creek near Fort Garland, and Indian Creek diversion.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and/or RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage 1961-80 Average
COLORADO				
Continental	27	3	3	4
Platoro	60	14	20	9
Rio Grande	51	19	8	15
Sanchez	103	42	24	10
Santa Maria	45	8	25	6
Terrace	18	7	11	6
NEW MEXICO				
Avalon	6	3	3	4
Caballo	344	46	88	46
Conchas	273	146	163	139
El Vado	195	130	127	34
Elephant Butte	2195	1323	932	416
McMillan	34	25	22	16
Santa Rosa	447	13	34	-
Sumner	111	23	33	64

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply

STREAM or AREA	Flow Period: Spring Season	Flow Period: Late Season
COLORADO		
Sangre de Cristo Cr	Excellent	Average
Trinchera Creek	Excellent	Average
NEW MEXICO		
Embudo Creek	Excellent	Average
Mora River	Excellent	Excellent
Nambe Creek	Excellent	Average
Rio Ojo Caliante	Excellent	Average
Santa Fe Creek	Excellent	Average

SUMMARY of SNOW MEASUREMENTS

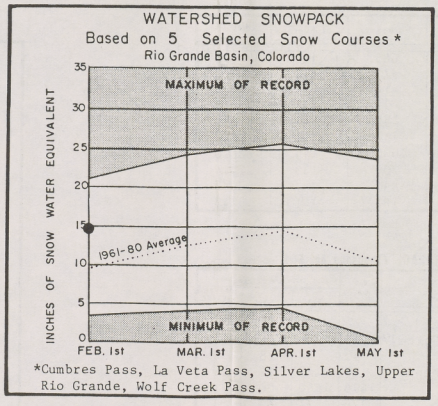
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF: Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF: 1961-80 Average
COLORADO			
Alamosa	1	171	176
Conejos	5	165	159
Culebra	4	197	153
Rio Grande, CO	13	117	120

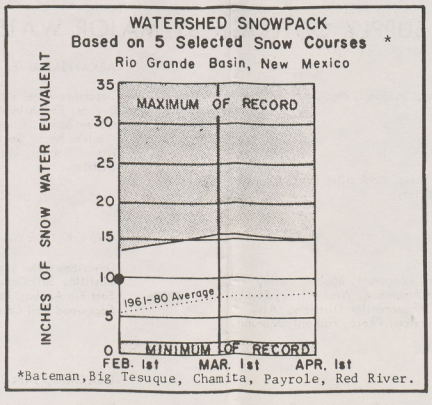
SNOW COURSE MEASUREMENTS

SNOW COURSE	CURRENT INFORMATION: DATE OF SURVEY	CURRENT INFORMATION: SNOW DEPTH (INCHES)	CURRENT INFORMATION: WATER CONTENT (INCHES)	PAST RECORD: WATER CONTENT (INCHES) LAST YEAR	PAST RECORD: WATER CONTENT (INCHES) AVG. 61-80	
RIO GRANDE BASIN-COLO.						
Alamosa River						
Lily Pond	1/29	44	14.2	11.0	-	
Silver Lakes	1/27	28	7.2	4.2	4.1	
Conejos River						
Cumbres Pass	1/25	70	25.7	13.1	14.1	
Cumbres Trestle	1/25	79	27.4	16.4	16.4	*
La Manga	1/25	59	18.9	12.0	13.1	
Pinos Mill	1/26	68	24.1	15.1	14.3	*
Platoro	1/29	46	14.3	10.5	11.5	
River Springs	N/S	-	-	-	4.6	
Culebra River						
Brown Cabin	1/31	31	9.6	3.9	4.7	
Culebra	1/30	30	8.2	4.7	6.1	
La Veta Pass (B)	1/30	38	11.6	5.9	7.4	*
Trinchera (B)	1/26	28	7.1	4.0	5.7	
Rio Grande						
Big Meadows	1/27	40	11.6	11.1	10.2	
Cochetopa Pass	1/26	27	7.0	2.1	3.9	
Grayback	1/24	43	13.2	8.4	9.6	*
Hiway	1/26	71	25.5	20.6	16.3	
Lake Humphrey	1/27	22	4.2	4.7	5.1	
Love Lake	1/25	29	6.8	5.9	6.0	
Middle Creek	1/25	47	13.6	12.3	-	
Pass Creek	1/26	41	10.2	10.8	9.2	
Pool Table	1/26	19	3.1	2.6	4.7	
Porcupine	1/27	29	7.8	5.0	7.7	
Santa Maria	1/27	21	5.5	2.8	3.8	
Upper Rio Grande	1/29	24	4.8	5.2	6.3	
Wolf Creek Pass	1/26	69	23.8	20.0	18.5	
Wolf Cr. Summit (B)	1/26	62	20.8	23.9	19.2	

NS-No survey.
(B)-On adjacent drainage.
*Less than 15 years of record.
N/S No survey.



*Cumbres Pass, La Veta Pass, Silver Lakes, Upper Rio Grande, Wolf Creek Pass.



*Bateman, Big Tesuque, Chamita, Payrole, Red River.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF: Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF: 1961-80 Average
NEW MEXICO			
Pecos	1	114	158
Red River	2	112	133
Rio Chama	3	220	176
Rio Grande, NM	14	129	168
Rio Hondo	-	-	-

SNOW COURSE MEASUREMENTS

SNOW COURSE	CURRENT INFORMATION: DATE OF SURVEY	CURRENT INFORMATION: SNOW DEPTH (INCHES)	CURRENT INFORMATION: WATER CONTENT (INCHES)	PAST RECORD: WATER CONTENT (INCHES) LAST YEAR	PAST RECORD: WATER CONTENT (INCHES) AVG. 61-80	
RIO GRANDE BASIN - NM						
Pecos River						
Bitter Creek		DISCONTINUED		3.4	-	D
Panchuela	1/31	19	4.9	4.3	3.1	
Wesner Springs		DISCONTINUED				D
Red River						
Hematite Park (B)	1/27	19	4.4	4.1	3.2	
Red River	1/27	24	5.7	4.9	4.4	
Rio Chama						
Bateman	1/26	45	14.0	6.0	7.6	
Chama Divide	1/26	26	4.4	2.4	3.1	
Chamita	1/25	39	11.4	5.1	6.2	
Rio Grande						
Alamitos	1/30	25	7.0	6.8	3.8	*
Bernal Trail (B)		DISCONTINUED		-	-	
Big Tesuque		DISCONTINUED		6.4	4.1	D
Cordova	N/S	-	-	-	5.8	
Elk Cabin	1/27	17	5.1	4.9	2.8	
Gallegos Peak	1/30	37	12.5	6.8	5.7	*
Hopewell	1/31	54	18.3	12.5	10.7	*
La Cueva	1/27	28	7.1	6.0	4.6	*
North Costilla	1/26	17	3.7	3.6	3.5	*
Ojo Redondo	1/26	16	4.1	4.6	-	
Palo	1/27	31	8.7	4.3	5.0	*
Payrole	1/31	34	10.7	7.8	5.9	
Post Office Flat	1/26	13	3.2	3.3	-	
Quemazon	1/25	26	6.1	7.8	6.1	
Rice Park	1/26	21	4.8	-	-	
Rio En Medio	1/24	32	8.3	9.1	6.2	
San Antonio Sink	1/30	35	10.8	-	4.9	*
Sandoval	1/25	20	4.2	5.3	3.7	
Senorita Divide	1/27	38	10.6	7.9	5.8	*
Taos Canyon	1/27	29	8.6	4.1	3.3	
Tres Ritos	1/30	26	8.2	5.5	3.7	
Rio Hondo						
Taos Powderhorn		DISCONTINUED		19.3	-	D

NS-No survey.
(B)-On adjacent drainage.
*Less than 15 years of record.
N/S No survey.
D Snow course discontinued. Estimates available thru SCS offic

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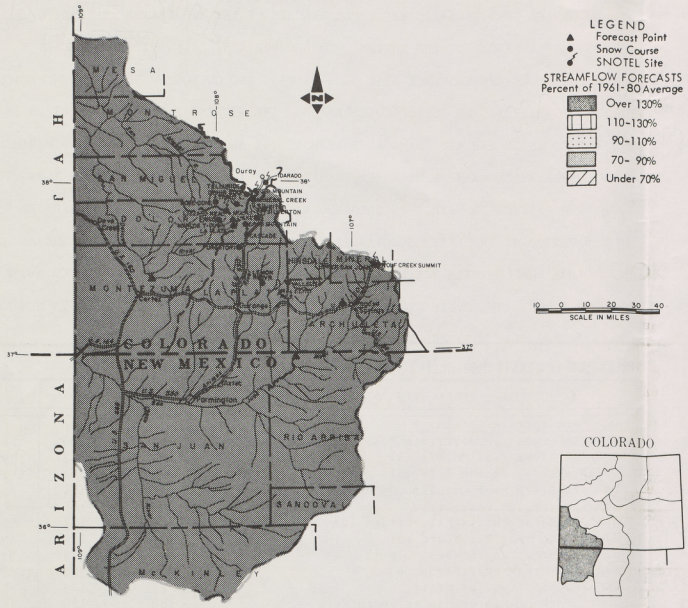
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

LOW ELEVATION PRECIPITATION OVER MOST OF THE BASIN AVERAGED LESS THAN HALF OF THEIR NORMAL AMOUNTS FOR THE MONTH. SEASONAL TOTALS NOW RANGE FROM 105% OF AVERAGE AT DURANGO TO 158% AT PLACERVILLE, AS REPORTED BY THE NATIONAL WEATHER SERVICE. STREAMFLOW VOLUMES RANGE FROM A LOW OF 37% ABOVE AVERAGE FOR THE SAN JUAN RIVER AT CARRACUS, TO A HIGH OF 49% ABOVE AVERAGE FOR THE ANIMAS AT DURANGO. WITH 60% OF THE MAXIMUM SNOWPACK IN PLACE, GOOD WATERSUPPLY CAN BE EXPECTED DURING EARLY SPRING AND SUMMER. STORAGE AS MEASURED AT SIX RESERVOIRS IN THE BASIN IS 181% OF NORMAL AND COULD SUPPLEMENT FLOWS DURING THE LATE SUMMER MONTHS.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1961-80 Average
Animas River at Durango	685	149	458.2
Dolores River at Dolores	370	144	256.0
Florida River at Bondad	51	135	37.2
La Plata River at Hesperus	37	142	26.1
Los Pinos River at Bayfield (1)	255	128	219.0
Mancos River near Towaoc (2)	37	131	28.2
Inflow to Navajo Reservoir (1 & 3)	1000	146	686.0
Piedra Creek at Arboles	300	133	225.4
San Juan River at Carracas	550	137	400.7
San Miguel River at Placerville	185	141	131.2

(1) Observed flow plus change in storage in Vallecito Reservoir. (2) March-July. (3) April-July.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply

STREAM or AREA	Flow Period: Spring Season	Flow Period: Late Season
Hermosa Creek	Excellent	Average
West Dolores River	Excellent	Average
Williams Creek	Excellent	Average

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and or RESERVOIR	Usable Capacity	Usable Storage: This Year	Usable Storage: Last Year	Usable Storage: 1961-80 AVERAGE
Groundhog 1/	22	14	16	9
Jackson Gulch 1/	10	6	6	4
Lemon	40	27	28	16
Narraguinep 1/	19	17	17	9
Navajo	1696	1460	1400	791
Vallecito	126	71	63	51

1/ Period of record less than 15 years.

SUMMARY of SNOW MEASUREMENTS

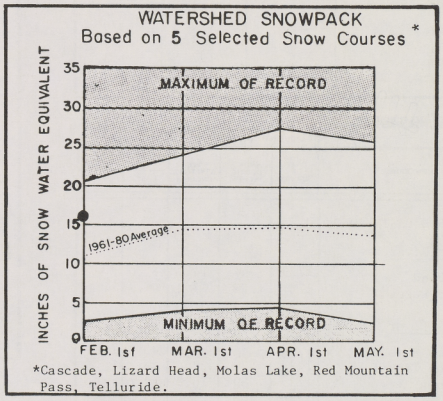
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF: Last Year	1961-80 AVG.
Animas	6	150	138
Dolores	6	174	149
San Juan	7	118	136

SNOW COURSE MEASUREMENTS

SNOW COURSE	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	PAST RECORD: WATER CONTENT (INCHES) LAST YEAR	AVG. 61-80	
SAN JUAN-DOLORES BASIN						
Animas River						
Cascade	1/26	40	13.4	8.2	9.1	
Lemon	1/27	33	8.8	8.0	7.3	*
Mineral Creek	1/26	46	14.5	8.7	10.4	
Molas Lake	1/26	44	14.5	7.4	9.4	
Purgatory		DISCONTINUED				D
Red Mt. Pass (B)	1/26	84	28.2	17.3	19.6	
Silverton Sub-Sta.		DISCONTINUED				D
Spud Mountain	1/26	55	19.2	15.9	15.9	
Dolores River						
Columbine Pass	1/25	50	16.6	-	-	
Groundhog	1/29	38	12.4	9.6	-	
Lizard Head	1/26	50	14.9	9.6	11.1	
Lizard Head Pass	1/26	55	16.0	8.5	-	
Lone Cone	1/24	51	16.4	11.4	11.6	*
Ophir Loop	1/23	49	15.5	7.8	9.4	*
Rico	1/26	33	8.8	5.0	6.2	
Telluride	1/23	36	9.2	4.8	5.5	
Trout Lake	1/23	47	14.4	6.9	9.4	
San Juan River						
Chama Divide (B)	1/26	26	4.4	2.4	3.1	
Chamita (B)	1/25	39	11.4	5.1	6.2	
La Plata	1/30	51	18.0	14.4	12.0	*
Mancos T-Down	1/31	48	16.6	14.3	11.0	*
Upper San Juan	1/26	82	28.2	24.3	20.5	
Vallecito	1/27	53	18.4	13.4	-	
Wolf Cr. Pass (B)	1/26	69	23.8	20.0	18.5	
Wolf Cr. Summit	1/26	62	20.8	23.9	19.2	

NS-No survey.
(B)-On adjacent drainage.
* Less than 15 years of record.
D Snow course discontinued. Estimates available thru SCS office.



*Cascade, Lizard Head, Molas Lake, Red Mountain Pass, Telluride.

WATER SUPPLY OUTLOOK BY MAJOR WATERSHED AREAS

-GUNNISON RIVER WATERSHED

Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompahgre Soil Conservation Districts.

-COLORADO RIVER WATERSHED

Describe water supply conditions in DeBeque, Plateau Valley, Mesa, Bookcliff, Eagle County, Middle Park, South Side, and Mt. Sopris Soil Conservation Districts.

-SOUTH PLATTE RIVER WATERSHED

Describes water supply conditions in Fort Collins, Big Thompson, Longmont, Boulder Valley, Jefferson, Teller-Park, Douglas County, Morgan, Kiowa, West Arapahoe, West Adams, East Adams, Platte Valley, Southeast Weld, and West Greeley Soil Conservation Districts. Also describes water supply conditions in Sedgwick, South Platte, Haxton, Peetz, Padroni, Morgan, Rock Creek, and Yuma Soil Conservation Districts.

-YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, White River, and Douglas Creek Soil Conservation Districts.

-ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Central Colorado, Turkey Creek, South Pueblo, Olney Boone, Cheyenne, Upper Huerfano, Spanish Peaks, Purgatoire River, Trinchera, Western Baca, Southeastern Baca, Two Buttes, Bent, Timpas, Notheast Prowers, Prowers, Kiowa County, West Otero, East Otero, Prairie, Hi Plains, and Double El Soil Conservation Districts.

-RIO GRANDE WATERSHED

Describes water supply conditions in Rio Grande, Center, Conejos, Mosca Hooper, and Costilla, Soil Conservation Districts. Also describes water supply conditions in UpperChama East Rio Arriba, Taos, Lindrith, Jemez, Santa Fe-Pojoaque, Sandovol, Tijeras, Cuba and Edgewood Soil Conservation Districts.

-DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

Describes water supply conditions in San Miguel Basin, Dove Creek, Dolores, Mancos, LaPlata, Pine River, San Juan, San Miguel Basin, and Glade Park Soil Conservation Districts.

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